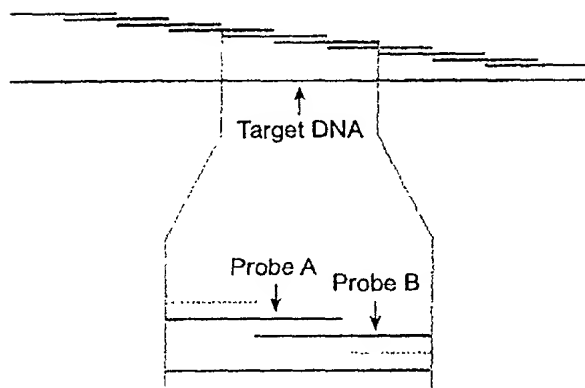


Figure 1. Scanning and Sequencing by Complete Overlapping Probes

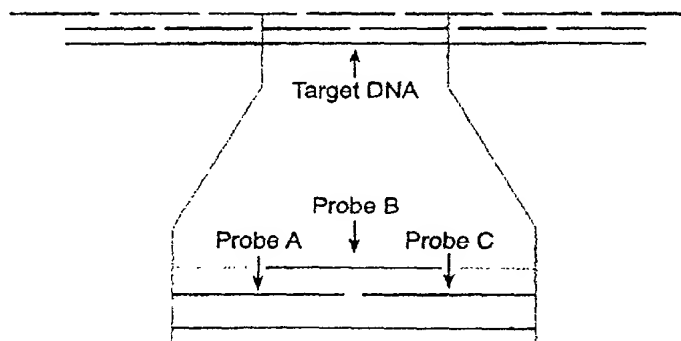


	ΔT_{mA} (°C)	ΔT_{mB} (°C)	$^*\Delta\Delta T_m$ (°C)
	0.3	2.8	-2.5
	3.9	3.7	0.2
	3.6	0.7	2.9

** Δ = Mismatch

* $\Delta\Delta T_m = \Delta T_{mA} - \Delta T_{mB}$

Figure 2. Scanning and Sequencing by Overlapping Probes with Single Nucleotide Spacing



	ΔT_{mA} (°C)	ΔT_{mB} (°C)	ΔT_{mC} (°C)	$^{***}\Delta\Delta T_m$ (°C)
	0	8.0	0	8.0
	1.0	3.0	0	-2.0
	0	3.0	1.0	2.0

** Δ = Mismatch

*** If $\Delta T_{mA}=0$ and $\Delta T_{mB}=0$, then $\Delta\Delta T_m = \Delta T_{mB}$ only

Figure 3. Effect on T_m of Different Mismatches in the Center of a 15mer Duplex

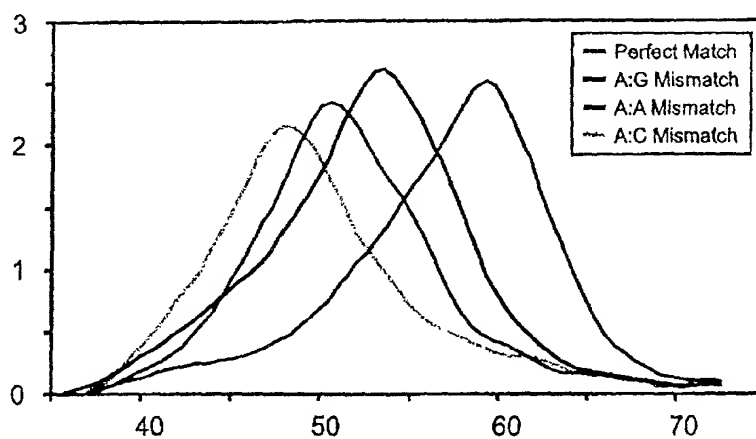


Figure 4. Effect of G:T Mismatch Position using 20mer Probes

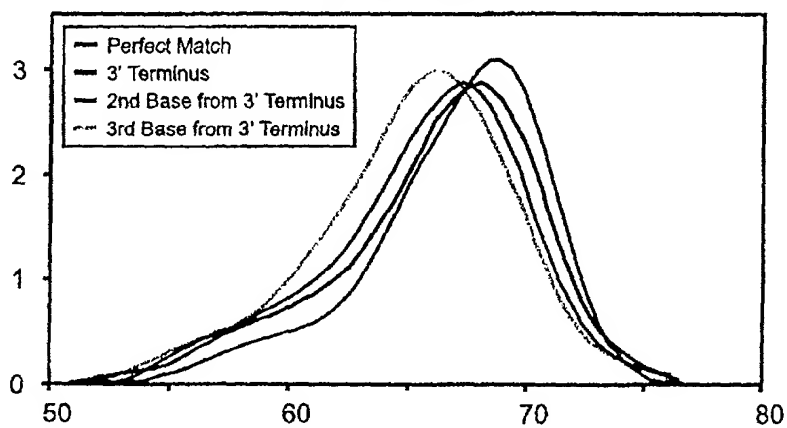


Figure 5. T_m Shift vs. Position of G:T Mismatch under a 20mer Probe

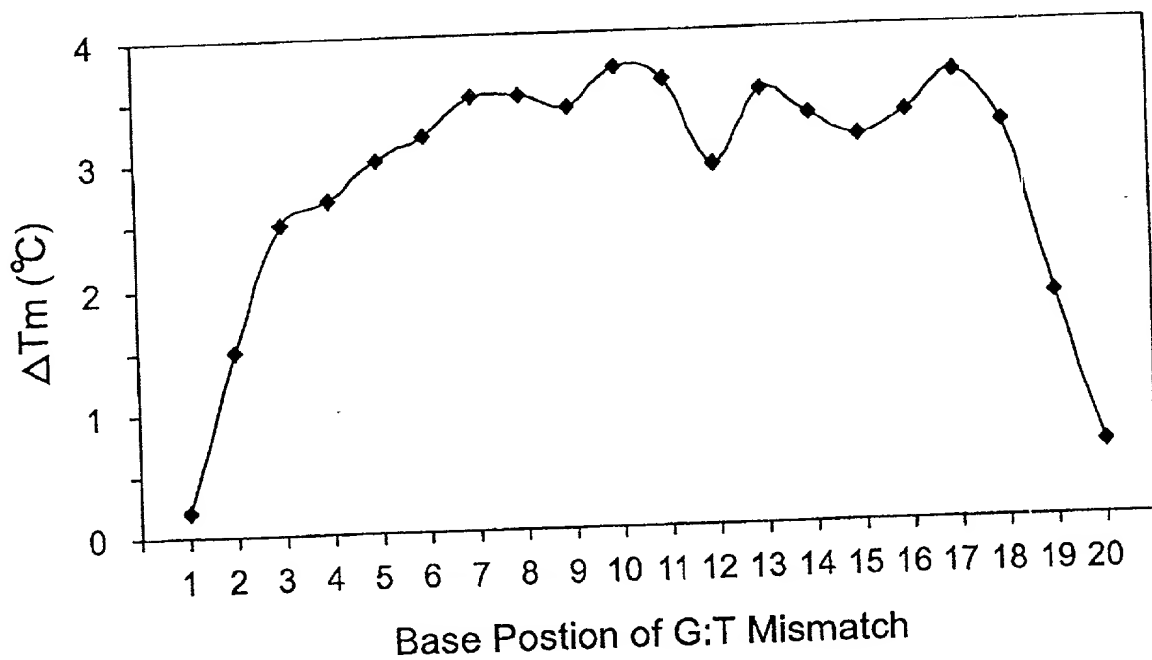


Figure 6. $\Delta\Delta T_m$ of G:T Mismatches at Different Positions using the Overlapping Probe Embodiment

